

525 536

Rec'd PCT/PPI 24 FEB 2005

(12) INTERNATIONAL APPLICATION PUBLISHED UNDER THE PATENT COOPERATION TREATY (PCT)

(19) World Intellectual Property Organization International Bureau



(43) International Publication Date
4 March 2004 (04.03.2004)

PCT

(10) International Publication Number
WO 2004/018646 A2

(51) International Patent Classification⁷: C12N

[BE/US]; c/o The Institute for Genomic Research, 9712 Medical Center Drive, Rockville, MD 20850 (US).
MASIGNANI, Vega [IT/IT]; c/o Chiron Corporation, 4560 Horton Street, Emeryville, CA 94608 (US).

(21) International Application Number: PCT/US2003/026827

(22) International Filing Date: 26 August 2003 (26.08.2003) (74) Agents: HALE, Rebecca, M. et al.; Chiron Corporation, Intellectual Property R338, P.O. Box 8097, Emeryville, CA 94662-8097 (US).

(25) Filing Language: English

(26) Publication Language: English

(81) Designated States (national): AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW.

(30) Priority Data:

60/406,237	26 August 2002 (26.08.2002)	US
60/406,676	27 August 2002 (27.08.2002)	US
60/406,757	28 August 2002 (28.08.2002)	US

(63) Related by continuation (CON) or continuation-in-part (CIP) to earlier applications:

US	60/406,237 (CIP)
Filed on	26 August 2002 (26.08.2002)
US	60/406,676 (CIP)
Filed on	27 August 2002 (27.08.2002)
US	60/406,757 (CIP)
Filed on	28 August 2002 (28.08.2002)

(84) Designated States (regional): ARIPO patent (GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW), Eurasian patent (AM, AZ, BY, KG, KZ, MD, RU, TJ, TM), European patent (AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IT, LU, MC, NL, PT, RO, SE, SI, SK, TR), OAPI patent (BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG).

(71) Applicants (for all designated States except US): CHIRON CORPORATION [US/US]; 4560 Horton Street, Emeryville, CA 94608-2916 (US). THE INSTITUTE FOR GENOMIC RESEARCH [US/US]; 9712 Medical Center Drive, Rockville, MD 20850 (US).

Published:

— without international search report and to be republished upon receipt of that report

For two-letter codes and other abbreviations, refer to the "Guidance Notes on Codes and Abbreviations" appearing at the beginning of each regular issue of the PCT Gazette.

(72) Inventors; and

(75) Inventors/Applicants (for US only): TETTELIN, Herve

(54) Title: CONSERVED AND SPECIFIC STREPTOCOCCAL GENOMES

(57) Abstract: The invention relates to polynucleotides which are conserved or specific to one or more species of Streptococcus, Streptococcus species serotypes, and/or serotype isolates. In particular, the invention relates to polynucleotides from Streptococcus which are conserved or specific to one or more of the species of *S. pneumoniae* ("pneumococcus" or "S. pn."), *S. pyogenes* ("group A streptococcus" or "GAS"), and *S. agalactiae* ("group B streptococcus" or "GBS"). The invention further relates to polynucleotides which are conserved or specific to one or more Streptococcal species serotypes, such as GBS serotypes Ia, Ib, II, III, IV, V, VI, VII, and VIII. The invention still further relates to polynucleotides which are conserved or specific to one or more clinical isolates of a Streptococcus species.

WO 2004/018646 A2